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HESSIAN FLY SURVEY AT HARVESTTIME 1941

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Field surveys made by the Bureau of Entomology and Plant Quarantine laboratories at Manhattan, Kans., La Fayette, Ind., and Carlisle, Pa., and by the State agricultural experiment stations of Illinois, Ohio, Kentucky, Missouri, and Nebraska indicate that Hessian fly infestations are low in wheatfields throughout eastern, north-central, and western Pennsylvania, eastern Maryland, Delaware, northwestern and northeastern Virginia, north-eastern Ohio, southwestern Michigan, northern Indiana, southwestern and south-central Nebraska, northwestern Kansas, and northern Oklahoma. There are, however, menacing populations of flies in local fields and areas in most of these regions.

Hessian fly infestations range from low to moderate in south-central Pennsylvania, western Maryland, north-central North Carolina, northwestern, east-central, and southeastern Missouri; moderate to heavy in southern Virginia, western and central Ohio, southeastern Michigan, central and southern Indiana, eastern and southern Illinois, eastern Kentucky, west-central and eastern Tennessee, northeastern and west-central Missouri, north-central and south-central Kansas; and heavy infestations in western Kentucky, southwestern Missouri, southeastern Nebraska, northeastern and southeastern Kansas. General examinations and observations by State entomologists in Iowa and Illinois indicate that Hessian fly may be found moderately to fairly heavy in the counties where winter wheat is grown in the States. Rigid observance of the safe-seeding dates is advised in the major winter Wheat Belt due to the wide spread and general increase of the fly this year.

The data summarized in the following table, and the accompanying map, indicate more fully the regions covered by the survey and the general trend of fly infestations. A field sample in the survey usually consisted of 50 wheat stems.

Hessian fly survey at harvesttime 1941

Area	Fields	Stems infested		
	:sampled	: Average	: Maximum	: Minimum
	:Number	: Percent	: Percent	: Percent
Nebraska:1/	:	:	:	:
Southwestern-----	23	1	2	0
South-central-----	25	5	20	0
Southeastern-----	40	33	100	0
:	:	:	:	:
Kansas:	:	:	:	:
Northwestern-----	10	3	6	0
North-central-----	38	15	78	0
Northeastern-----	44	29	88	0
South-central-----	32	15	96	0
Southeastern-----	29	23	72	2
:	:	:	:	:
Oklahoma:	:	:	:	:
Northwestern-----	8	0	0	0
North-central-----	33	1	8	0
Northeastern-----	37	3	18	0
:	:	:	:	:
Missouri:1/	:	:	:	:
Northwestern-----	19	10	26	0
West-central-----	29	13	34	0
Southwestern-----	24	30	76	0
Northeastern-----	28	16	86	0
East-central-----	20	11	26	0
Southeastern-----	12	8	54	0
:	:	:	:	:
Illinois:1/	:	:	:	:
Eastern and southern-----	74	17	74	0
:	:	:	:	:
Michigan:	:	:	:	:
Southwestern-----	32	3	10	0
Southeastern-----	39	18	50	2
:	:	:	:	:
Indiana:	:	:	:	:
Northern-----	138	7	34	0
Central and southern-----	218	17	74	0
:	:	:	:	:
Ohio:1/	:	:	:	:
Western and central-----	-	14	-	-
Northeastern-----	-	4	-	-
:	:	:	:	:
Kentucky:1/	:	:	:	:
Western-----	17	26	44	10
Eastern-----	28	17	52	0

Hessian fly survey at harvesttime 1941.--Continued

Area	Fields	Stems infested		
	:sampled	Average	Maximum	Minimum
	:Number	:Percent	:Percent	:Percent
Tennessee:	:	:	:	:
West-central-----	36	16	70	2
Eastern-----	52	15	50	4
:	:	:	:	:
Pennsylvania:	:	:	:	:
Eastern-----	29	7	20	0
North-central-----	22	6	22	0
South-central-----	35	11	80	0
Western-----	15	2	8	0
:	:	:	:	:
Delaware-----	10	3	10	0
:	:	:	:	:
Maryland:	:	:	:	:
Eastern-----	15	3	16	0
Western-----	25	12	56	0
:	:	:	:	:
Virginia:	:	:	:	:
Northeastern-----	40	5	26	0
Northwestern-----	20	7	20	0
Southern-----	15	16	50	0
:	:	:	:	:
North Carolina:	:	:	:	:
North-central-----	40	8	44	0

1/ Data obtained partly or mostly by State entomologists.

HESSIAN FLY SURVEY AT HARVEST TIME 1941.

Numbers indicate percentage of stems infested. Cross-hatching indicates from moderate to severe infestation.

State	Percentage of Stems Infested
Alaska	0
British Columbia	0
Alberta	0
Saskatchewan	0
Manitoba	0
Ontario	0
Quebec	0
New Brunswick	0
Prince Edward Island	0
Nova Scotia	0
Newfoundland	0
Washington	0
Oregon	0
Idaho	0
Montana	0
Wyoming	0
Utah	0
Arizona	0
California	1
Nevada	0
Colorado	0
New Mexico	0
Texas	0
Oklahoma	0
Arkansas	0
Missouri	0
Iowa	0
Illinois	0
Indiana	0
Michigan	26
Wisconsin	0
Minnesota	0
North Dakota	0
South Dakota	0
Nebraska	0
Kansas	0
Oklahoma	0
Arkansas	0
Mississippi	0
Alabama	0
Georgia	0
Florida	0
South Carolina	0
North Carolina	0
Virginia	0
West Virginia	0
Maryland	0
Delaware	0
Pennsylvania	30
New Jersey	0
Delaware	0
Maryland	0
West Virginia	0
Virginia	0
North Carolina	0
South Carolina	0
Georgia	0
Florida	0
Alabama	0
Mississippi	0
Arkansas	0
Missouri	0
Iowa	0
Illinois	0
Indiana	0
Michigan	0
Wisconsin	0
Minnesota	0
North Dakota	0
South Dakota	0
Nebraska	0
Kansas	0
Oklahoma	0
Arkansas	0
Mississippi	0
Alabama	0
Georgia	0
Florida	0
South Carolina	0
North Carolina	0
Virginia	0
West Virginia	0
Maryland	0
Delaware	0
Pennsylvania	0
New Jersey	0
Delaware	0
Maryland	0
West Virginia	0
Virginia	0
North Carolina	0
South Carolina	0
Georgia	0
Florida	0
Alabama	0
Mississippi	0
Arkansas	0
Missouri	0
Iowa	0
Illinois	0
Indiana	0
Michigan	0
Wisconsin	0
Minnesota	0
North Dakota	0
South Dakota	0
Nebraska	0
Kansas	0
Oklahoma	0
Arkansas	0
Mississippi	0
Alabama	0
Georgia	0
Florida	0
South Carolina	0
North Carolina	0
Virginia	0
West Virginia	0
Maryland	0
Delaware	0
Pennsylvania	0
New Jersey	0
Delaware	0
Maryland	0
West Virginia	0
Virginia	0
North Carolina	0
South Carolina	0
Georgia	0
Florida	0
Alabama	0
Mississippi	0
Arkansas	0
Missouri	0
Iowa	0
Illinois	0
Indiana	0
Michigan	0
Wisconsin	0
Minnesota	0
North Dakota	0
South Dakota	0
Nebraska	0
Kansas	0
Oklahoma	0
Arkansas	0
Mississippi	0
Alabama	0
Georgia	0
Florida	0
South Carolina	0
North Carolina	0
Virginia	0
West Virginia	0
Maryland	0
Delaware	0
Pennsylvania	0
New Jersey	0
Delaware	0
Maryland	0
West Virginia	0
Virginia	0
North Carolina	0
South Carolina	0
Georgia	0
Florida	0
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Mississippi	0
Arkansas	0
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Indiana	0
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South Dakota	0
Nebraska	0
Kansas	0
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Arkansas	0
Mississippi	0
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South Carolina	0
North Carolina	0
Virginia	0
West Virginia	0
Maryland	0
Delaware	0
Pennsylvania	0
New Jersey	0
Delaware	0
Maryland	0
West Virginia	0
Virginia	0
North Carolina	0
South Carolina	0
Georgia	0
Florida	0
Alabama	0
Mississippi	0
Arkansas	0
Missouri	0
Iowa	0
Illinois	0
Indiana	0
Michigan	0
Wisconsin	0
Minnesota	0
North Dakota	0
South Dakota	0
Nebraska	0
Kansas	0
Oklahoma	0
Arkansas	0
Mississippi	0
Alabama	0
Georgia	0
Florida	0
South Carolina	0
North Carolina	0
Virginia	0
West Virginia	0
Maryland	0
Delaware	0
Pennsylvania	0
New Jersey	0
Delaware	0
Maryland	0
West Virginia	0
Virginia	0

Numbers indicate percentage of stems infested. Cross-hatching indicates from moderate to severe infestation.

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